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1 [Computing curricula 2001](#)

[CORPORATE The Joint Task Force on Computing Curricula](#)

September 2001 **Journal on Educational Resources in Computing (JER)**

Publisher: ACM [Request Permissions](#)

Full text available: [Html](#) (2.78 KB), [Pdf](#) (613.63 KB) Additional Information: [full citati](#)

Bibliometrics: Downloads (6 Weeks): 93, Downloads (12 Months): 1086, Dowl

2 [Historical perspectives on the computing curriculum \(report of the ITI perspectives in computing education\)](#)

[Michael Goldweber, John Impagliazzo, Loui A. Bogoavlenski, A. G. Clear, \(Rasala](#)

June 1997 **ITICSE-WGR '97: The supplemental proceedings of the conf science education: working group reports and supplemental p**

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (110.51 KB) Additional Information: [full citation, re](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 64, Downloa

3 [GPGPU: general purpose computation on graphics hardware](#)

[David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ia August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**](#)

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (63.03 MB) Additional Information: [full citation, at](#)

Bibliometrics: Downloads (6 Weeks): 135, Downloads (12 Months): 1446, Dov

The graphics processor (GPU) on today's commodity video cards has ev
processor. The latest graphics architectures provide tremendous memor
fully programmable vertex ...

4 [Collision detection and proximity queries](#)

[Sunil Hadap, Dave Eberle, Pascal Volino, Ming C. Lin, Stephane Redon, Chr August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**](#)

Publisher: ACM [Request Permissions](#)

Full text available: [Pdf](#) (11.22 MB) Additional Information: [full citation, at](#)

Bibliometrics: Downloads (6 Weeks): 74, Downloads (12 Months): 564, Downl

This course will primarily cover widely accepted and proved methodolog

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advanced or recent topics such as continuous collision detection, ADFs,
When appropriate ...

- 5 [Automatic compilation to a coarse-grained reconfigurable system-on-chip](#)
Girish Venkataramani, Walid Najjar, Fadi Kurdahi, Nader Bagherzadeh, Wirgin
November 2003 **Transactions on Embedded Computing Systems (TECS)**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (687.52 KB)

Additional Information: [full citation](#), [at](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 66, Downloads

The rapid growth of device densities on silicon has made it feasible to design a new computing platform. However, one of the obstacles to the wider acceptance of this application ...

Keywords: Reconfigurable computing, SIMD, compilers

- 6 [Design flow and methodology for 50M gate ASIC](#)
Alok Mehrotra, Lukas van Ginneken, Yatin Trivedi
January 2003 **ASP-DAC '03: Proceedings of the 2003 Asia and South Pacific Design Automation Conference**

Publisher: ACM

Full text available:  Pdf (308.17 KB)

Additional Information: [full citation](#), [at](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 23, Downloads

This paper presents a methodology for full chip RTL timing closure for the concept of a "Silicon Virtual Prototype". The methodology is based on the placement ...

- 7 [Towards the next generation of 3D content creation](#)
Gerhard H. Bendels, Ferenc Kahlesz, Reinhard Klein
May 2004 **AVI '04: Proceedings of the working conference on Advanced Visual Interfaces**

Publisher: ACM

Full text available:  Pdf (243.26 KB)

Additional Information: [full citation](#), [at](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 53, Downloads

In this paper we present a novel integrated 3D editing environment that combines computer graphics, such as shape modelling, video-based Human Computer interaction manipulation techniques. ...

Keywords: AR, HCI, augmented reality, human computer interaction, r

- 8 [Patchable instruction ROM architecture](#)
Timothy Sherwood, Brad Calder
November 2001 **CASES '01: Proceedings of the 2001 international conference on Computer-Aided Design in Embedded Systems**

Publisher: ACM


Full text available:  Pdf (299.03 KB)

Additional Information: [full citation](#), [at](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 44, Downloads

Increased systems level integration has meant the movement of many including a processor, instruction storage, data path, and local memory. conflicting ...

9 Algorithmic issues in modeling motion

 [Pankaj K. Agarwal](#), [Leonidas J. Guibas](#), [Herbert Edelsbrunner](#), [Jeff Erickson](#), [Hershberger](#), [Christian Jensen](#), [Lydia Kavraki](#), [Patrice Koehl](#), [Ming Lin](#), [Dine David Mount](#), [S. Muthukrishnan](#), [Dinesh Pai](#), [Elisha Sacks](#), [Jack Snoeyink](#), [S](#)
December 2002 **Computing Surveys (CSUR)** , Volume 34 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (205.25 KB)


Additional Information: [full citation](#), [at](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 249, Downl


This article is a survey of research areas in which motion plays a pivotal approaches to modeling motion together with related data structures ar that lie ...

Keywords: Computational geometry, computer vision, mobile networks; physical simulation, robotics, spatio-temporal databases

10 Development of a real time image based object recognition method f

 [Juergen Gausemeier](#), [Juergen Freund](#), [Carsten Matysczok](#), [Beat Bruederlin](#),
February 2003 **AFRIGRAPH '03: Proceedings of the 2nd international confe**
visualisation and interaction in Africa

Publisher: ACM

Full text available:  [Pdf](#) (2.94 MB)

Additional Information: [full citation](#), [at](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 126, Downl

In this paper we describe an image based object recognition and trackin correlative process to generate the required data. The object recognition related objects. Correspondings ...

Keywords: AR, PDA, augmented reality, mobile devices, object recogni

11 Design methodology for PicoRadio networks

[J. da Silva, Jr.](#), [J. Shamberger](#), [M. Ammer](#), [C. Guo](#), [S. Li](#), [R. Shah](#), [T. Tuan](#),
[Vincentelli](#), [P. Wright](#)

March 2001 **DATE '01: Proceedings of the conference on Design, automa**

Publisher: IEEE Press

Full text available:  [Pdf](#) (328.60 KB)


Additional Information: [full citation](#), [re](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 39, Downloa

12 Overview of augmented reality

 [Ronald Azuma](#)
August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**


Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (6.12 MB)



Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 381, Downl

13 Adaptive tetrapuzzles: efficient out-of-core construction and visualization models

 Paolo Cignoni, Fabio Ganovelli, Enrico Gobbetti, Fabio Marton, Federico Por
August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Papers**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Mov](#) (23:54 MIN),  [Pdf](#) (525.88 KB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 103, Download


We describe an efficient technique for out-of-core construction and accurate surface models. The method uses a regular conformal hierarchy of tetrahedral cell ...

Keywords: Level of Detail, Out-Of-Core Algorithms

Also published in:

August 2004 **Transactions on Graphics (TOG)** Volume 23 Issue 3

14 Static scheduling algorithms for allocating directed task graphs to multiprocessors

 Yu-Kwong Kwok, Ishfaq Ahmad

December 1999 **Computing Surveys (CSUR)**, Volume 31 Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (723.58 KB) Additional Information: [full citation](#), [at](#)

Bibliometrics: Downloads (6 Weeks): 72, Downloads (12 Months): 737, Download

Static scheduling of a program represented by a directed task graph on completion time is a well-known problem in parallel processing. Since finding a problem in general, ...

Keywords: DAG, automatic parallelization, multiprocessors, parallel programming graphs

15 Proscenium: a framework for spatio-temporal video editing

 Eric P. Bennett, Leonard McMillan

November 2003 **MULTIMEDIA '03: Proceedings of the eleventh ACM international**

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (2.86 MB) Additional Information: [full citation](#), [at](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 54, Download

We present an approach to video editing where movie sequences are tracked, sheared and warped under user control. This simple capability enables rapid postproduction modifications, ...



Keywords: feature removal, feature selection, multimedia framework, stabilization

16 Perceptual audio rendering of complex virtual environments

 Nicolas Tsingos, Emmanuel Gallo, George Drettakis

August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Papers**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Mov](#) (24:25 MIN),  [Pdf](#) (475.04 KB) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 189, Downloads (All Time): 1,000


We propose a real-time 3D audio rendering pipeline for complex virtual sources. The approach, based on auditory culling and spatial level-of-detail of sources commonly ...

Keywords: Audio Hardware, Perceptual Rendering, Spatial Hearing Modeling

Also published in:

August 2004 **Transactions on Graphics (TOG)** Volume 23 Issue 3

17 [Using shape distributions to compare solid models](#)

 [Cheuk Yiu Ip, Daniel Lapadat, Leonard Sieger, William C. Regli](#)

June 2002 **SMA '02: Proceedings of the seventh ACM symposium on Solid Modeling**

Publisher: ACM

Full text available:  [Pdf](#) (237.71 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 50, Downloads (All Time): 1,000

Our recent work has described how to use feature and topology information to compare solid models. In this paper, we describe a new method to compare solid models based on shape distributions. This method is more robust than the previous one and is common in the computer graphics community ...

Keywords: 3D search, shape matching, shape recognition, solid model comparison

18 [Modeling layout tools to derive forward estimates of area and delay](#)

 [Donald S. Gelosh, Dorothy E. Steliff](#)

July 2000 **Transactions on Design Automation of Electronic Systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (278.32 KB)


Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 25, Downloads (All Time): 1,000

Forward estimates of area and delay facilitate effective decision-making in the early stages of design. Current estimation techniques focus on modeling the layout requirements. This paper describes a new method for deriving forward estimates. This method is more robust than the previous one and is common in the computer graphics community ...

Keywords: VLSI CAD, estimation, estimation techniques, layout, machine learning

19 [Proceedings of the 2003 Asia and South Pacific Design Automation Conference](#)

 [Hiroto Yasuura](#)

January 2003 **ASP-DAC '03: Proceedings of the 2003 Asia and South Pacific Design Automation Conference**

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (All Time): 1,000

On behalf of the Organizing Committee, I would like to welcome you to the conference.

Conference 2003(ASP-DAC 2003), a sister conference of DAC and DATE
the largest industrial ...

20 Runtime Power Monitoring in High-End Processors: Methodology an
Canturk Isci, Margaret Martonosi

December 2003 **MICRO 36**: Proceedings of the 36th annual IEEE/ACM Inte

Publisher: IEEE Computer Society

Full text available:  Pdf (921.50 KB)

Additional Information: [full citation](#), [at](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 138, Downl

With power dissipation becoming an increasingly vexing problem across
measuring power dissipation of real, running systems has become crucial
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